

《Microengineering of 》

图书基本信息

书名：《Microengineering of metals and ceramics金属与陶瓷的微工程，第II部分》

13位ISBN编号：9783527314935

10位ISBN编号：3527314938

出版时间：2005-11

作者：Lohe, Detlef; Haufelt, Jurgen;

页数：644

版权说明：本站所提供下载的PDF图书仅提供预览和简介以及在线试读，请支持正版图书。

更多资源请访问：www.tushu000.com

内容概要

Microstructures, electronics, nanotechnology - these vast fields of research are growing together as the size gap narrows and many different materials are combined. Current research, engineering successes and newly commercialized products hint at the immense innovative potentials and future applications that open up once mankind controls shape and function from the atomic level right up to the visible world without any gaps.

Continuing from the previous volume, authors from three major competence centres for microengineering here cover all aspects of specialized replication techniques and how to employ state-of-the-art technologies for testing and characterizing micro-scale components, and illustrate quality control aspects and strategies for automation of production procedures in view of future industrial production and commercialisation.

书籍目录

Preface	Foreword	List of Contributors	Replication Techniques - Micro Casting, Micro Electro Forming and Further Techniques	13		
Microcasting	Microelectroforming of Metals	Further Ceramic Replication Techniques	Automation and Quality Assurance	16		
Automation of the Powder Injection Molding Process	Microassembly - Approaches to Meet the Requirements of Accuracy	18	Quality Assurance and Dimensional Measurement Technology	Properties of Materials and Microcomponents	19	
Analysis of" Microstructure, Surface Topography and Mechanical Properties of Microcast Specimens Made of the Dental Gold Alloy Stabilor G20	Microstructure, Surface Topography and Mechanical Properties of" Molded ZrO ₂ Microspecimens	21	Tribological Characterization of Mold Inserts and Materials for Microcomponents	22	Development of a Simulation Tool for Wear in Microsystems	Subject Index

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:www.tushu000.com